

Break-out Groups: Water Systems Resilience Stocktaking & Gap Identification

International Perspectives on Water Resilience
11 October 2016, Bristol

Workshop Session

Objective

- Identify gaps and share ideas to set an innovative research agenda
- Find partners for multi-disciplinary collaboration



Overview

- Provide a working definition of resilience with 4 key capabilities
- Explain prompt materials
- Make groups around each theme to identify:
 - Research themes
 - Application challenges



Working Definition: Resilient Performance

The **capability** to **adapt** to **foreseen** and **unforeseen disturbances** in order to **sustain** required operations and **minimise harm** to individuals, organisations and wider society, and **enhance** organisational and societal **wellbeing**.



To **ANY** event within a defined **scope of interest**



Groups: Resilient Capabilities

1. The ability to **RESPOND**

- Knowing what to do, or being able to respond to regular and irregular changes, disturbances, and opportunities by activating prepared actions or by adjusting current mode of functioning

2. The ability to **MONITOR (i.e. present)**

- Knowing what to look for, or being able to monitor that which is or could seriously affect the system's performance in the near term – positively or negatively
- Monitoring covers the system's own performance as well as what happens in the environment

3. The ability to **LEARN**

- Knowing what has happened, or being able to learn from experience, in particular to learn the right lessons from the right experience – i.e. double-loop learning

4. The ability to **ANTICIPATE (i.e. future)**

- Knowing what to expect, or being able to anticipate developments further into the future, e.g.
 - Potential disruptions
 - Novel demands or constraints
 - New opportunities
 - Changing operating conditions



Water Systems Task: 45 Minutes

- Move to the table of a group that you feel you have the most to contribute
 - Ensure reasonably equal numbers across groups

- Discuss and write ideas using post-its to stick on the flipchart page
 - **Stocktaking:**
 - Write what existing project / capability have something to contribute the capability – briefly describe what it is (so someone else can understand and find it later)
 - **Gaps:**
 - **Research gaps:** What new knowledge would enhance the capability – I.e. things you don't know yet, but would like to
 - **Application gaps:** What things do we know, but haven't worked out how to apply effectively in the real world – briefly describe what could be done about it

- Group facilitators will report back the highlights



Next steps ... Action

- Please provide links via email for us to collate and post about water resilience
 - Projects
 - Teams
 - Opportunities

